

TABLE OF CONTENTS

	PAGE
Flora of Panama. Part V, Fascicle 1 (Lauraceae to Cruciferae)..... Robert E. Woodson, Jr., Robert W. Schery and collaborators	1-106
A Dicotyledonous Wood Found Associated with the Idaho Tempskyas..... William Spackman, Jr.	107-115
The Uses of Hevea for Food in Relation to Its Domestication..... R. J. Seibert	117-121
The Use of Glands in a Taxonomic Consideration of the Family Bignoniaceae..... R. J. Seibert	123-136
Gynandropsis, Cleome, and Podandroyne..... Robert E. Woodson, Jr.	139-146
Maize in the Great Herbals..... John J. Finan	149-191
Contributions to Our Knowledge of American Carboniferous Floras. X. An Osmundaceous Stem from Iowa..... Henry N. Andrews and Robert W. Baxter	193-201
A Crossotheca from Northern Illinois..... Henry N. Andrews and Sergius Mamay	203-204
A Note on <i>Fomes idahoensis</i> Brown..... Henry N. Andrews	207
A Study of the Vegetative Anatomy of the Genus <i>Sphenophyllum</i> from American Coal Balls..... Robert W. Baxter	209-231
Miscellaneous New Apocynaceae and Asclepiadaceae..... Robert E. Woodson, Jr.	233-238
Quantitative Determination of the Pigment Content of Single Cells by Means of a New Microspectrophotometer..... Barry Commoner	239-254
The Southern Dent Corns..... William L. Brown and Edgar Anderson	255-268
The 1947 Conference on the Inflorescences of <i>Zea Mays</i> : Ear and Tassel Development in Maize..... O. T. Bonnett	269-287
A Comparative Developmental Study of a Dwarf Mutant in Maize, and Its Bearing on the Interpretation of Tassel and Ear Structure..... S. G. Stephens	289-299

	PAGE
Studies on the Structure of the Maize Plant.....	
..... Hugh C. Cutler and Marian C. Cutler	301-316
Right-Handed and Left-Handed Corn Embryos	
..... Paul Weatherwax	317-321
A Morphological Analysis of Row Number in	
Maize..... Edgar Anderson and William L. Brown	323-336
The Vascular Anatomy of the Four-rowed Ear	
of Corn..... R. A. Laubengayer	337-340
General Features of the Epidermis in <i>Zea Mays</i>	
..... Henri Prat	341-351
Comparative Histology of the Female Inflores-	
cence of <i>Zea Mays</i> L..... Lee Wayne Lenz	353-376
The Role of Pod Corn in the Origin and Evolu-	
tion of Maize..... Paul C. Mangelsdorf	377-404
General Index to Volume XXXV.....	405-408

**STAFF
OF THE MISSOURI BOTANICAL GARDEN**

Director
GEORGE T. MOORE

HERMANN VON SCHRENK,
Pathologist

JESSE M. GREENMAN,
Curator Emeritus of the Herbarium

CARROLL W. DODGE,
Mycologist

EDGAR ANDERSON,
Geneticist

ROBERT E. WOODSON, JR.
Curator of the Herbarium

HENRY N. ANDREWS,
Paleobotanist

ROBERT W. SCHERY,
Research Associate

GUSTAV A. L. MEHLQUIST,
Research Horticulturist

ROLLA M. TRYON,
Assistant Curator of the
Herbarium

GEORGE B. VAN SCHAAK,
Honorary Curator of Grasses

JULIAN A. STEYERMARK,
Honorary Research Associate

NELL C. HORNER,
Librarian and Editor
of Publications

GERALD ULRICI,
Business Manager

**BOARD OF TRUSTEES
OF THE MISSOURI BOTANICAL GARDEN**

President
RICHARD J. LOCKWOOD

Vice-President
DANIEL K. CATLIN

Second Vice-President
EUGENE PETTUS

L. RAY CARTER

DUDLEY FRENCH

HENRY HITCHCOCK

JOHN S. LEHMANN

GEORGE T. MOORE

A. WESSEL SHAPLEIGH

ETHAN A. H. SHEPLEY

EX-OFFICIO MEMBERS

ARTHUR H. COMPTON,
Chancellor of Washington
University

A. P. KAUFMANN,
Mayor of the City of
St. Louis

STRATFORD L. MORTON,
President of the Academy of
Science of St. Louis

WILLIAM SCARLETT,
Bishop of the Diocese of
Missouri

C. OSCAR JOHNSON
President of the Board of Education of St. Louis

GERALD ULRICI, Secretary